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(54) Callulose-based fibres for the production of non-wovens

(57) Cellulose fibres having a low water retention capacity and a low water holding capacity as well as a high immersion time, and that are processable into a non-woven exhibiting as short a droplet penetration time as possible, as low a wet retention as possible and as slight a wetback as possible, contain, (a) as mineral fillers, barium sulphate, talcum, muskovite, or a mixture thereof, in an amount of from 15 to 60% of the total fibre mass, and, if desired, (b) additionally, hydrophobic, polymer or oligomer substances, such as polyothylene, polypropylene, polystyrene, polyacrylic acid ester, polyester, polytetrafluorethylene or waxes, in an amount of from 1 to 60% of the total fibre mass. The fibres are produced in a

process in which the mineral fillers and, if desired, the hydrophobic, polymer or oligomer substances—preferably as an aqueous suspension of the same—are admixed to a viscoso, and the mixture is wetspun.

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SPECIFICATION

Improvements in or relating to cellulose-based fibres, in particular for the production of non-wovens, a nonwoven comprising such fibres, and a method of producing the fibres

The invention relates to cellulose-based fibres having a low water retention capacity, a high immersion time, a low water holding capacity (total capacity), a low absorbent capacity, and a content of mineral fillers, in particular for the production of nonwovens, a nonwoven comprising such fibres, as well as a method of producing such fibres.

Fibres of this kind are primarily used in cover stock for children's napkins, adults' napkins, sanitary towels, incontinence towels, bedding linens and similar disposable articles, as well as in padding nonwovens.

It is known, for instance, for Swiss patent No. 487.641 to use carded, binder-containing nonwovens of viscose and/or polyester staple fibres for cover stock. In recent times, binding-fibre-bonded nonwovens of viscose, polyester and/or polypropylene staple fibres have gained more and more importance. According to recent findings, synthetic-fibre-spun nonwovens are intended to be used to a greater extent for the above-mentioned field of application.

In addition to the necessary mechanical data of non-wovens, such as dry and wet tenacities, energy at break, bursting strength, stiffness, etc., special hydrophobic properties have recently been demanded for cover stock. Based on a number of published works presented in the course of lectures by EDANA (European Disposables and Non-wovens Association), the following three measurable variables of cover stock are used to determine those special properties:

---droplet penetration time

---wet retention

25 —wetback (stain test).

The droplet penetration time is a measure for the primary wetting of the cover stock and is measured in seconds.

The wet retention indicates the amount of liquid in %, based on the weight of the dry cover stock, which is absorbed and retained by the cover stock under the test conditions.

With wetback, the liquid discharge by the cover stock to a superimposed blotting paper is determined and as a measured value the stain area is in dicated in cm².

On the basis of these test methods for the characterisation of the hydrophobic properties, as short a droplet penetration time as possible, as low a wet retention as possible and as slight a wetback as possible are required for cover stock. In general, these conditions are better complied with by synthetic fibres than, for instance, by viscose fibres, with respect to wet retention and wetback. In contrast, the primary wetting, which is reflected in a short droplet penetration time, is clearly more favourable with viscose fibres than with synthetic fibres.

The invention has as its object to provide cellulose-based fibres, such as viscose fibres, of the initially described kind, which, in particular, are processable into a nonwoven that has all the 40 above-defined properties.

This object is achieved according to the invention in that the fibres, as mineral filters, contain barium sulphate, talcum, muskovite, or a mixture thereof, in an amount of from 15 to 60%, preferably 40 to 50%, of the total fibre mass, and, if desired, additionally contain hydrophobic, polymer or oligomer substances, such as polyethylene, polypropylene, polystyrene, polyacrylic acid ester, polyester, polytetrafluorethylene, or waxes, in an amount of from 1 to 60%, preferably 25 to 50%, of the total fibre mass.

The particle size of the mineral fillers contained in the fibres ought not exceed 3 µm. In German patent No. 845, 230 it is suggested to add electroosmotically purified kaolin, preferably in amounts of from 5 to 10%, to a cellulose solution prior to its formation into threads or films, yet the addition of kaolin exclusively serves delustering purposes. As waxes, such of petrochemical, montanistic or synthetic proveniences may be used for the fibres according to the invention.

The portion of mineral fillers and/or polymer or oligomer substances in the fibres according to the invention in the first place depends on the special fibre properties desired in the sense of a 55 hydrophobic finish.

Advantageously, the fibres contain a mixture of mineral fillers and hydrophobic, polymer or oligomer substances in a mass ratio of between 10:90 and 90:10, preferably between 50:50 and 90:10, with the mixture being particularly contained in an amount of between 1 to 60%, preferably 30 to 50%, of the total fibre mass.

According to a further advantageous embodiment, the fibres contain mineral fillers that are coated with the hydrophobic, polymer or oligomer substances at a mass ratio of between 75:25 and 99:1, preferably between 85:15 and 95:5, wherein these coated mineral fillers in particular are contained in an amount of from 1 to 60%, preferably 25 to 50%, of the total fibre mass.

While the reduction of hydrophility, with the addition of mineral fillers, primarily is based on 65 the fact that the hydrophilic groups of the collulose forming the fibre structure are reduced in an 65

GB2121069A 2 economical manner as compared to pure collulose fibres, the addition of hydrophobic polymer or oligomer substances is a hydrophobic finish induced on purpose. If a mixture of mineral fillers and hydrophobic polymer or oligomer products is added to the viscose, different hydrophobic finish stages are achieved in the resulting fibre according to the Invention, depending on the 5 mixing ratio of these two components. The production of the fibros, according to the invention is effected in that the mineral fillers 5 and, if desired, the hydrphobic, polymer or oligomer substances or the coated mineral. fillers - proferably as an aqueous suspension of the same—are admixed to a viscose, and the mixturo is wetspun. Preferably, the mineral fillers or the hydrophobic substances are used as an aqueous suspension with a particle or drop size of below 3 μm, in the presence of an alkali-stable 10 emulgator system. The alkali-stable emulgator system on the one hand prevents the agglomeration of particles after having been stirred into the viscose and on the other hand collapses in the usually sulphuric spin bath, so that the mineral fillers and the finely distributed hydrophobic, 15 polymer or oligomer substances are incorporated into the cellulose fibres possibly without loss. A nonwoven according to the invention is characterised in that, at a fibre titre of 1.7 dtex, it has a droplet penetration time of no more than 45 s, a wet retention of no more than 90% and a wetback of no more than 55/75 cm², or that, at a fibre titro of 3.3 dtex, it has a droplet penetration time of no more than 10 s, a wet retention of no more than 45% and a wetback of 20 nor more than 40/65 cm². The invention will now be explained in more detail by way of the following examples. 20 The measurable variables necessary to characterise the fibre properties are defined as follows: 25 Thickness swelling [%] = $\frac{D_{\text{swellen fibre}} - D_{\text{cond. fibre}}}{D_{\text{cond. fibre}}} \times 100$ 25 D: fibre diameter The thickness swelling is determined microscopically at an individual fibre and represents the 30 diameter increase of a fibre swollen in water, based on the conditioned fibre. 30 fibre mass at 25°C and 90% rel. humidity - fibre mass in the absolutely dry state 35 Steam absorption [%] = 35 fibre mass in the absolutely dry state The fibres are stored at the indicated temperature and relative humidity until the condition of 40 equilibrium has been attained. The water absorbed is gravimetrically determined. The immersion time and the water holding capacity (WHV) are methods of determination 40 described in the Deutschen Arzneibuxh (DAB), 7th Ed., 1968. The immersion time is a measure for the wettability of the fibres and is indicated in seconds, a good wettability being indicated by a short immersion time. The water holding capacity indicates the water held in the capillary 45 tubes between the fibres in g/g of fibre. The water retention capacity (WRV) according to DIN 53814 is a measure for the water 45 retained in the individual fibros after intensive immrsion in water and subsequent defined centrifugation and is indicated in %. fibre mass centrifuged - fibre mass dry WRV [%] = 50 fibre mass dry The absorbent capcity is determined according to the Domand-Wettability-Test, published by 55 B.M. Lichstein, 2nd Annual Symposium on Nonwoven Product Development, March 1974, Washington, D.C., 129 to 142. 55 Into 1 kg of viscose containing 8 to 9% cellulose, 5 to 5.5% NaOH and 2 to 2.5% sulphur, 60 115 g of an aqueous suspension having a content of 30% barium sulphate (Blanc Fixe Micro from Sachtleben) were stirred. 60 This mixed viscose was spun in a spin bath having a content of 100 to 110 g of H₂SO₄ 340 to 360 g of Na₂SO₄ and 5 to 10 g of ZnSO₄ per I. The spin bath temperature was 40 to 50°C. The coagulated fibre cable was drawn by 50% in air, cut into staples, washed, bleached, avived 65 and dried. 65

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	Fibre proporties:			
•	Titre (dtex)/staple length (mm)	1.7/40		
	Fibre tenacity conditioned (cN/tex)	12.2		
· 5	Fibre elongation conditioned (%)	15.0	. •	5 .
	Degree of whiteness (BE)	65.0	• •	J.
	Barium sulphate content (%)	28.0		
	WRV according to DIN 53814 (%)	63.5		
	Immersion time according to DAB 7 (s)	3.5	· •	
10	WHV according to DAB 7 (g/g)	1 6.5 .		10
	Absorbent capacity according to Demand-	•		
	Wettability-Tost (ml/g)	8.1		
15	On the addition of 30% of a thermoplastic were carded four times and thermally strengtl distribution.	Heterofil bindin hened at about !	g fibre (CHISSO ES), the fibres 200°C to obtain a uniform	15
	Nonwoven properties:			
	Droplet penetration time (s)	0		
20	Wet retention (%)	55.0		20
	Wetback (cm²)	53/75	•	•••
25	Without avivation, the fibres exhibit a very high mean maximum cohesion of the sliver as slipping:	high fibre-fibre nd a high value	cohesion, which is expressed by a for the range of cohesion and	25
	Mean maximum cohesion of			
	the silver (cN/ktex)	45.8 to 62.1		
	Range of cohesion and slipping (cN/ktex)	16.8		
30	vialige of democion and outputing (orty mon)	10.0	•	30
	On account of this high fibre-fibres cohesion fibres of the invention. Usually, only the high production of ear sticks.	n it was possible ly cohesive cotte	e to produce ear sticks from the on has been used for the	30.
35	The fibre according to the invention also ex demanded for the production of cotton round of a nonwoven by means of a special tool, the embossed edge in order to largely prevent fib pads. Usually, only natural cotton exhibits this	pads for cosme e round pads ha res from fuzzling	tics. Round pads are punched out rying to have a characteristic g off during utilisation of the round	35
40	Example 2:			40
40	It is proceeded in a manner analogous to E	vamnia 1. vot is	. neldisiae en sha bantuna autotaaa	40
	suspension, 88g of an aqueous emulsion hav Dispersion PE 30 from Hoechst) are stirred in	ing a content of	39% polyethylene (Polyāthylen-	
45	Fibre properties:			45
	Titre (dtex)/staple length (mm)	1.7/40	3.3/60	_
	Fibre tenacity cond. (cN/tex)	10.3	9.9	
	Fibre elongation cond. (%)	10.5	11.5	
	Degree of whiteness (BE)	61.0	63.0	
50	Barium sulphate content (%)	27.8	27.5	50
	Polyethylene content (%)	18.2	18.9	
	WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s)	57.5 ·	52.3	
	WHV according to DAB 7 (g/g)	6.0 15.0	5.7 .15.3	
55	Absorbent capacity according to	15.0	. 13.3	55
	Demand-Wettability-Test (ml/g)	7.5	7.8	23
	Nonwoven properties:		- 10	
	Droplet penetration time (s)	2	1	
	Wet retention (%)	51	49	
60	Wetback (cm²)	48/65	43/68	60
	Example 3; According to Example 1, yet with the addit	ion of 128 a at	an aqueous dispositos basicos -	

According to Example 1, yet with the addition of 128 g of an aqueous dispersion having a content of 30% of a wax-coated barium sulphate (90% Blanc Fixe Micro from Sachtleben and 65 10% MOBILCER 46 from Mobil) instead of the barium sulphate suspension, fibres and a

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Fibre elongation cond. (%) Degree of whiteness (BE) Barium sulphate content (%) Portion extractable with petroloum 10 ether (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to 15 Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetnback (cm²) 20 Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) 30 Degree of whiteness (BE) Talcum content (%) WRV according to DAB 7 (g/g) 35 Absorbent capacity according to DAB 7 (s) WHV according to DAB 7 (g/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) 40 Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphat and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) SWPV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s)			GB 2 121 069A	
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Degree of whiteness (BE) Barium sulphate content (%) Portion extractable with petroloum of ether (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but hoechst) as well as of 70 g of the barium sulphate and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO4 content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 8 (g/g)	10.2	11.0		
Barium sulphate content (%) Portion extractable with petroloum ther (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but hoechst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO4 content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 8 (g/g) Absorbent capacity according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s)	64.0	65.0		
Portion extractable with petroloum 0 ether (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but heechst) as well as of 70 g of the barium sulphat and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) Polyacrylate content (%) WRV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 9 (g/g)	27.5	28.0	•	
WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition of content of 25% methylmethacrylate and 25% but heechst) as well as of 70 g of the barium sulphatiand a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) Polyacrylate content (%) WRV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 9 (s)		20.0	•	
Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but heachst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) Degree of whiteness (BE) BaSO ₄ content (%) WRV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 7 (s) WHV according to DAB 7 (s)	3.5	3.7		1
Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but heachst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) Degree of whiteness (BE) BaSO ₄ content (%) WRV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 7 (s) WHV according to DAB 7 (s)	68.9	44.3		1
WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Test (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 7 (g/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but hocchst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 7 (s) WHV according to DAB 7 (s)	œ	00		
Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but heechst) as well as of 70 g of the barium sulpharand a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO4 content (%) polyacrylate content (%) WRV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	0	0		
Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Test (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but heechst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) VRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:		•		
Droplet penetration time (s) Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Test (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition of content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphat and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	0	0	•	4
Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition of content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulpharand a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Dibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO4 content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:		•		1
Wet retention (%) Wetnback (cm²) Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition of content of 25% methylmethacrylate and 25% but the content of 25% methylmethacrylate and 25% but doesn't as well as of 70 g of the barium sulpharand a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Dibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	43.0	7.0		
Example 4: According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Test (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but heechst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	31.0	24.0		
According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following prop Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (cN/tex) Fibre elongation cond. (cN/tex) Fibre elongation to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Test (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulpharand a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO4 content (%) polyacrylate content (%) WRV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	7/34	26/57		
According to Example 1, yet with the addition content of 30% of a talcum (Naint talcum V 118 fibres and a nonwoven having the following properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Test (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Examplo 5: According to Example 1, yet with the addition of content of 25% methylmethacrylate and 25% but he content of 25% methylmethacrylate and 25% but he chast) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	., 🕶	20/01		_
Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Test (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Examplo 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) Degree of whiteness (BE) BaSO ₄ content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:		-		2
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Talcum content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Test (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Test (ml/g) Nonwoven properties:	55.0			
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WHV according to DAB 7 (g/g) Absorbent capacity according to Demand-Wettability-Test (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphat and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	74.2			
Absorbent capacity according to Demand-Wettability-Test (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	1.9	•		
Demand-Wettability-Tost (ml/g) Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	16.2		•	
Nonwoven properties: Droplet penetration time (s) Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:				3
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Wet retention (%) Wetback (cm²) Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	•			
Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	0 .	•	•	
Example 5: According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphar and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	59			
According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphat and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	42/65			4
According to Example 1, yet with the addition content of 25% methylmethacrylate and 25% but Hoechst) as well as of 70 g of the barium sulphat and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:				
Fibre properties: Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:				
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and a nonwoven were produced. Fibre properties: Titre (dtex)/staple length (mm) Fibre tenecity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	141/1/2024	/ A	A A . O = .	
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Titre (dtex)/staple length (mm) Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53B14 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:				
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Fibre tenacity cond. (cN/tex) Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	2 2 /02			
Fibre elongation cond. (%) Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) 5 WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	3.3/60		•	
Degree of whiteness (BE) BaSO ₄ content (%) polyacrylate content (%) 5 WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	11.0			5
BaSO ₄ content (%) polyacrylate content (%) 5 WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	15.0			
polyacrylate content (%) WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	56.0			
5 WRV according to DIN 53814 (%) Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	17.0			
Immersion time according to DAB 7 (s) WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	13.8		•	
WHV according to DAB 8 (g/g) Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	69.0			5
Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	2.9	•		_
Absorbent capacity according to Demand-Wettability-Tost (ml/g) Nonwoven properties:	14.5			
Nonwoven properties:			•	
U Nonwoven properties:	7.4			
Droplet management on eight (-)				6
Droplet penetration time (s)	2			O
Wet retention (%)	53			
M-AL-1. / m	39/61			
· ·	,			

				GB 2 121 069A	5
	It was proceeded as in Example 1, yet w	ithout the additio	n of barium sul	phate.	
	Fibre properties:				
_	Titre (dtex)/cut length (mm)	1.7/40	3.3/60		
5	Fibre tenacity cond. (cN/tex)	19.0	18.5		_
	Fibre elongation cond. (%)	18.5	20.1		5
	Degree of whiteness (BE)	63.0	62.0		
	WRV according to DIN 53814 (%)	· 85.0	85.0		
	Immersion time according to DAB 7 (s)	2.5	2.2		•
0	WHV according to DAB 7 (g/g)	19.0	19.0		10
	Thickness swelling (%)	37.0	37.0		
	Stoam absorption at 20°C and				
	90% rel. humidity (%)	21.0	21.0		
E	Absorbent capacity according to Demand-Wettability-test (ml/g)			•	
J	Nonwoven properties:	10.2	10.2	•	15
	- ·	Fibre titre (dtex)/	staple length (n	nm)	
_		1.7/40	3.3/60	<u> </u>	
0					20
	Droplet penetration time (s)	0	O		
	Wet retention (%) Wetback (cm²)	151.0	65.0		
	TTO WOOK (CITT)	73/92	47/71		•
O	reduced immersion time, a much higher Whaccording to the invention. Nonwovens produced of the fibres accord produced of conventional viscose fibres, extime, while, at the same time, having considuents.	ling to the inventi	on, as compare	d to nonwovens	30
5	CLAIMS				
	low water holding capacity, a low absorbent particular for the production of nonwovens, barium sulphate, talcum, muskovite, or a m	t capacity, and a characterised in t ixture thereof in	content of mine that they contain an amount of fe	ral fillers, in n, as mineral fillers,	35
0	particular for the production of nonwovens, barium sulphate, talcum, muskovite, or a m preferably 40 to 50%, of the total fibre mas polymer or oligomer substances, such as po acid ester, polyester, polytetrafluorethylene preferably 25 to 50%, of the total fibre mas	characterised in taxture thereof, in ss, and, if desired, lyethylene, polypior waxes, in an auss.	content of mine hat they contain an amount of from additionally, hope one from 1	ral fillers, in 1, as mineral fillers, 0m .15 to 60%, ydrophobic, yrene, polyacrylic 1 to 60%,	35 40
	particular for the production of nonwovens, barium sulphate, talcum, muskovite, or a m preferably 40 to 50%, of the total fibre mas polymer or oligomer substances, such as po acid ester, polyester, polytetrafluorethylene preferably 25 to 50%, of the total fibre mas 2. Fibres according to claim 1, character and hydrophobic, polymer or oligomer substances by between 50:50 and 90:10. 3. Fibres according to claim 2, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2. Fibres according to claim 2, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2. Fibres according to claim 1, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2. Fibres according to claim 1, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2. Fibres according to claim 1, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2. Fibres according to claim 1, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2. Fibres according to claim 2, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2. Fibres according to claim 2, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2. Fibres according to claim 1, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2. Fibres according to claim 2, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2. Fibres according to claim 3, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2. Fibres according to claim 3, character of from 1 to 60%, preferably 30 to 50%, of the total fibre mas 2.	characterised in the characterised in the characterised in the control of the characterised in the characterised in the characteristic in the characteristic in that the characterised in that the characterised in that the characterised in that the characterised in that they characterised in that they	content of mine hat they contain an amount of from additionally, he ropylone, polyst mount of from a mixturatio of betweer dixture is contain ass.	ral fillers, in 1, as mineral fillers, om 15 to 60%, ydrophobic, yrene, polyacrylic to 60%, re of mineral fillers 10:90 and 90:10, ned in an amount	
5	particular for the production of nonwovens, barium sulphate, talcum, muskovite, or a m preferably 40 to 50%, of the total fibre mas polymer or oligomer substances, such as po acid ester, polyester, polytetrafluorethylene preferably 25 to 50%, of the total fibre mas 2. Fibres according to claim 1, character and hydrophobic, polymer or oligomer substrated between 50:50 and 90:10. 3. Fibres according to claim 2, character of from 1 to 60%, preferably 30 to 50%, or 4. Fibres according to claim 1, character the hydrophobic, polymer or oligomer substrates hydrophobic, polymer or oligomer substrates according to claim 1, character the hydrophobic, polymer or oligomer substrates according to claim 4, character 5. Fibres according to claim 4, character	characterised in taxture thereof, in ixture thereof, in ixed, if desired, in the they tances at a mass in the total fibre massed in that they ances at a mass rised in that they ances at a mass rised in that they ances at a mass rised in that they	content of mine hat they contain an amount of from additionally, he ropylone, polyst mount of from a mixturatio of between ass. contain a mixture is contain ass. contain mineral atio of between	ral fillers, in 1, as mineral fillers, 2, om 15 to 60%, 2, ydrophobic, 2, yrene, polyacrylic 2, to 60%, 3, re of mineral fillers 3, 10:90 and 90:10, 3, ned in an amount 4, fillers coated with 75:25 and 99:1, 3, llers are contained	40
5	particular for the production of nonwovens, barium sulphate, talcum, muskovite, or a m preferably 40 to 50%, of the total fibre mas polymer or oligomer substances, such as po acid ester, polyester, polytetrafluorethylene apreferably 25 to 50%, of the total fibre mas 2. Fibres according to claim 1, character and hydrophobic, polymer or oligomer substances preferably between 50:50 and 90:10. 3. Fibres according to claim 2, character of from 1 to 60%, preferably 30 to 50%, or 4. Fibres according to claim 1, character the hydrophobic, polymer or oligomer substance in an amount of from 1 to 60%, preferably 6. A nonwoven comprising the fibres actifibre titre of 1.7 dtex, it exhibits a droplet of the substance of the substance of 1.7 dtex, it exhibits a droplet of the substance of 1.7 dtex, it exhibits a droplet of the substance of 1.7 dtex, it exhibits a droplet of the substance of 1.7 dtex, it exhibits a droplet of the substance of 1.7 dtex, it exhibits a droplet of the substance of 1.7 dtex, it exhibits a droplet of 1.7 dtex, it exhibits a droplet of 1.7 dtex.	characterised in the characterised in the ixture thereof, in ass, and, if desired, and, if desired, and, if desired, and, if desired, and asserts and in that they tances at a mass and in that they ances at a mass ances at	content of mine hat they contain a mount of from a mount of from a mount of from a contain a mixturatio of between mixture is contain ass. contain mineral atto of between coated mineral fire total fibre materal from a more than a more	ral fillers, in 1, as mineral fillers, 2, om 15 to 60%, 2, ydrophobic, 2, yrene, polyacrylic 2, to 60%, 3, re of mineral fillers 3, 10:90 and 90:10, 3, ned in an amount 4, fillers coated with 75:25 and 99:1, 3, llers are contained 3, arised in that at a	40 45
5	particular for the production of nonwovens, barium sulphate, talcum, muskovite, or a m preferably 40 to 50%, of the total fibre mas polymer or oligomer substances, such as po acid ester, polyester, polytetrafluorethylene a preferably 25 to 50%, of the total fibre mas 2. Fibres according to claim 1, character and hydrophobic, polymer or oligomer substances preferably between 50:50 and 90:10. 3. Fibres according to claim 2, character of from 1 to 60%, preferably 30 to 50%, or 4. Fibres according to claim 1, character the hydrophobic, polymer or oligomer substance in an amount of from 1 to 60%, preferably 6. A nonwoven comprising the fibres actifibre titre of 1.7 dtex, it exhibits a droplet pertention of no more than 90% and a wetbar 7. A nonwoven comprising the fibres actifibre titre of 3.3 dtex, it exhibits a droplet pertention of no more than 45% and a wetbar retention of no more than 45% and a wetbar	characterised in tacharacterised in tacharacterised in tack, and, if desired, allyethylene, polypror waxes, in an arise. The content of the total fibre marked in that they ances at a mass raised in that they ances at a mass raised in that the caption of the cording to claims enetration time of the cording to claims enetration time of tack of no more thack of no more that	content of mine hat they contain a mount of from additionally, he contain a mixturatio of between mixture is contain ass. contain mineral atto of between total fibre mate at to 5, characte no more than 4 no more than 4 no more than 4 no more than 4 no 40/85 cm ² .	ral fillers, in 1, as mineral fillers, om 15 to 60%, ydrophobic, yrene, polyacrylic 1 to 60%. The of mineral fillers 1 10:90 and 90:10, and in an amount fillers coated with 75:25 and 99:1, and in that, at a 15 s, a wet the prised in that, at a 10 s, a wet	40 45
5	particular for the production of nonwovens, barium sulphate, talcum, muskovite, or a m preferably 40 to 50%, of the total fibre mas polymer or oligomer substances, such as po acid ester, polyester, polytetrafluorethylene apreferably 25 to 50%, of the total fibre mas 2. Fibres according to claim 1, character and hydrophobic, polymer or oligomer substances preferably between 50:50 and 90:10. 3. Fibres according to claim 2, character of from 1 to 60%, preferably 30 to 50%, or 4. Fibres according to claim 1, character the hydrophobic, polymer or oligomer substance in an amount of from 1 to 60%, preferably 6. A nonwoven comprising the fibres actifibre titre of 1.7 dtex, it exhibits a droplet percention of no more than 90% and a wetbar 7. A nonwoven comprising the fibres actifibre titre of 3.3 dtex, it exhibits a droplet per fibre titre of 3.3 dtex, it exhibits a droplet per fibre titre of 3.3 dtex, it exhibits a droplet per fibre titre of 3.3 dtex, it exhibits a droplet per fibres actifibre titre of 3.3 dtex, it exhibits a droplet per fibres actifibre titre of 3.3 dtex, it exhibits a droplet per fibres actifibre titre of 3.3 dtex, it exhibits a droplet per fibres actifibre titre of 3.3 dtex, it exhibits a droplet per fibres actifibre titre of 3.3 dtex, it exhibits a droplet per fibres actifibre titre of 3.3 dtex, it exhibits a droplet per fibres actifibre titre of 3.3 dtex, it exhibits a droplet per fibres actifibre titre of 3.3 dtex, it exhibits a droplet per fibres actified the fibres actifibre titre of 3.3 dtex, it exhibits a droplet per fibres actified the fibres a	characterised in take in the characterised in the characterised in the characterised in the characterised in that they tances at a mass raised in that the mass of the characterised in that the characterised in the characterised in that the characterised in the characterised in that the characterised in that the characterised in that the characterised in that the characterised in the characterised in that the characterised in the characterised	content of mine hat they contain an amount of from additionally, he ropylone, polyst mount of from a contain a mixturatio of between hixture is contain ass. contain mineral atio of between coated mineral file total fibre man at 1 to 5, character no more than an 55/75 cm². I to 5, character no more than an 40/65 cm². I to 5, character gomer substance me mineral fillers are admineral fillers.	ral fillers, in 1, as mineral fillers, om 15 to 60%, ydrophobic, yrene, polyacrylic 1 to 60%. The of mineral fillers 1 10:90 and 90:10, and in an amount fillers coated with 75:25 and 99:1, and in that, at a 15 s, a wet brised in that, at a 10 s, a wet trised in that the test of the coated exed to a viscose, and for	40 45 50

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- 10. Fibres substantially as hereinbefore described with reference to the accompanying examples.
- 11. A nonwoven substantially as hereinbefore described with reference to the accompanying examples.
- 12. A method substantially as hereinbefore described with reference to the accompanying examples.

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